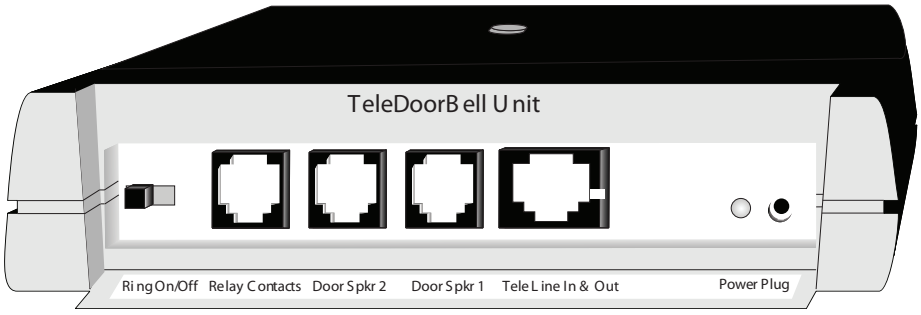
Installation Manual

Revision 5 June 2003

TeleDoorBell™

Don't open your door to the unknown



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SAFETY INSTRUCTIONS

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product
3. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product near water, for example, near a bathtub, wash bowl, kitchen sink, or a laundry tub, in a wet basement, or near a swimming pool.
5. Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage to the product.
6. This product should never be operated near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of power supply to your home, consult your dealer or local Power Company.
8. Do not allow anything to rest on the power cord. Do not locate this product where the cord will be abused by persons walking on it.
9. Do not overload wall outlets and extension cords as this can result in risk of fire or electric shock.
10. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
11. To reduce the risk of electric shock, do not dissemble this product, but take it to qualified service technician when some service or repair is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect re-assembly can cause electric shock when the appliance is subsequently used.
12. Unplug this product from the wall outlet and refer servicing to a qualified service personnel under the following conditions:

    * When the power supply cord or plug is damaged or frayed.
    * If liquid has been spilled into the product.
    * If the control unit has been exposed to rain or water.
    * If the product does not operate normally by following the instructions. Adjust only those controls that are covered by the operating instructions because improper adjustment of other controls may result in damage and will require extensive work by a qualified technician to restore to normal operation
    * If the product has been dropped or the housing has been damaged
    * If the product exhibits a distinct change in performance.

13. Avoid using a telephone (other than cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
14. Do not use the telephone to report a gas leak near the leak.

DOC NOTICE:

Notice- The Canadian Department of Communications label identifies certified equipment. The certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, user should ensure that it is permissible to connect to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. User should ensure that the telephone lines and metallic water pipe system (if present) are electrical grounded.

Introductions

Congratulations on your purchase of the TeleDoorBell, a system that offers enhanced security while providing unparalleled convenience. The system can be used with or without a doorbell.
Operation is subject to the following Conditions:
1) This device may not cause harmful interference
2) This device may accept any interference including interference that may cause undesired operation.
Complies with Part 68, FCC Rules FCC REG NO. 5ERCAN-31264-OT-N REN: 0.8B
(DOC/CSA/UL approved)

Features

The TeleDoorBell is a telephone based doorbell system that provides the system user with the capability of communicating with a door speaker from any installed telephone set, including cordless. Unmatched in convenience, this unique new product provides the following features:

* System will work as a replacement or in parallel with any standard doorbell.
* Provides high-quality audio conversation capability with any connected door speaker.
* Unique telephone ringing when door speaker button depressed.
* Allows homeowner to select the door speaker by entering a unique touch-tone code from any telephone.
* Will provide toll restriction at the discretion of the owner.
* Rings telephones distinctively when door speaker button depressed.
* Relay closure to ring doorbell or a number of other devices.
* Can be set to ring doorbell only.
* Door speaker has LEDs for constant illumination.
* Supports speakerphone quality conversation between the telephone and the door speaker.
* The system gives a user two minutes to access door following the depression of the door speaker button.
* If the door speaker button is depressed, when the telephone is in use on an outside call, the user hears a beep tone to alert that there is a visitor at the door. The user can then depress ***4** on a touch-tone telephone to put the telephone call on hold and connect to the door speaker. Depressing ***4** again will return to the telephone call. Note: this can only be used once and only after the door speaker button is depressed. Alternatively, a user can hang up on the telephone call and then pick up the handset and they will be connected to the door speaker. (This needs to be done within the two minute window. * # * can be used beyond the two minutes).
* A DTMF code selection (dialed from any connected telephone) allows the system user to access the door speaker outside of the two-minute window.
* Relay closure activated by DTMF digit ***5** or ***8** allows door strike dry contact operation. (Normally Open NO).
* Toll Restriction, 1+ long distance, 011 international, or 1+976, user programmable.
* Password protection for programming which user can change to a personal 3-digit DTMF code.
* Progress tones to guide user while programming.

Parts list

The TeleDoorBell system is shipped from the factory with the following components:

* TeleDoorBell control unit
* Speaker Unit with wall mounting plate
* CSA/UL approved class 2 Power Supply, Input 120VAC, 60Hz, Output 16Vac 250 mA. Note the system will also work with a class 2 Power Supply Input 120VAC, Output 16-24Vdc 350 mA. Please make sure that the output does not exceed 24 VDC or serious damage may occur.
* Two (2) modular RJ-11 Male open-ended patch cord. Used to splice and connect door speaker unit, door strike and doorbell, to the TeleDoorBell system unit.
* RJ-45 8 pin male to male modular patch cord.
* Three (3) #6 wood screws for mounting
* Dimensions: Controller (17cmX17cmX4cm) Door-speaker (15.5cmX10.5cmX3cm)

Connections

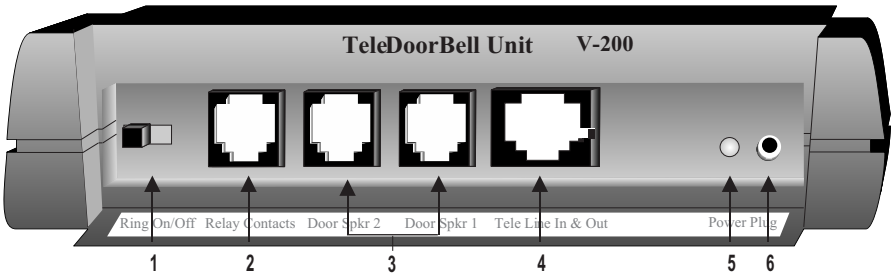


Fig 1

[1] Telephone ringer Selector Switch
This switch enables/disables ringing of the telephones. When positioned to the left, this switch enables ringing of the telephones.

[2] Doorbell/Door Strike Connecting Jack
The centre two pins connect to the doorbell button. Doorbell will always ring if connected to the unit. The adjacent pairs drives the door strike relay or other accessories (dry contact triggered devices only)
Internal ***TeleDoorBell*** Relays are all rated at: **24Volts , 1 Amp Maximum.**

[3] Door Speaker Connecting Jacks
Each of these jacks enables a connection to door speaker for communicating to a point-of-entry.

[4] Telephone Line Connecting Jack
This jack provides connection to the incoming telephone line on the inner pair and connection to household telephone(s) on the outer pair.

[5] Power Status LED
When "ON" this lamp indicates the presence of power to the unit, when "OFF" it indicates the absence of power to the unit.

[6] Power Supply Jack
This jack is the connecting point for AC power supply to the unit. The supply is typically 16 Vac at a minimum of 250 mA, but can be as high as 20VAC, which will provide greater ringing power to the telephones. Can also use a 16-24 Vdc supply. (Note: Do not exceed 24 VDC or serious damage can occur to the controller unit)

Installation Instructions

To complete the installation the installer must supply the following:

* RJ31X and/or CA38A disconnect and bypass jack. (This is an optional device, however, it is recommended in the event that the unit needs to be disconnected. This will provide a bypass capability whereby the telephone line continues to work if the ***TeleDoorBell*** unit needs to be removed from the telephone line. Note: If installation is done at a location that has an existing alarm jack (RJ31X and/or CA38A) then ensure that the alarm is installed before the TeleDoorBell RJ31X and/or CA38A jack. Otherwise, the alarm system may not have disconnect priority.
* Two plastic wall anchors to mount Door Speaker unit near a point of entry.

Installation of the system requires that the installer install a 4-conductor wire 22 AWG, (Max Length 250') from the location of the door speaker unit to the location of the system control unit. It is recommended that the system control unit be installed near the point-of-entry of the customer's main telephone line. Please ensure that adequate AC power is available in the general vicinity.

Mounting of the Door Speaker assembly: See Fig 2.

IMPORTANT NOTICE:
For added protection we strongly recommend you use surge protectors on both your power supply and on the C/O line (phone line) to protect against lightning and other energy surges. This precaution may be extremely important in rural areas.

Surface mount speaker D-100-F diagram

Installation

1) First drive an initial mounting screw 2” above the door speaker wiring hole leaving about 1/4” of screw shaft extending from wall.

2) Thread wire through opening at bottom of unit
Note: We recommend that you use silicon sealer to protect the wiring around the hole

3) Hang The D-100-F speaker on initial mounting screw

4) Secure the D-100-F speaker to the wall with secondary mounting screw. See Fig 3

5) Connect the four wires to the wiring post of the D-100-F speaker. See fig 4

6) Replace the wiring cover back on the speaker

Fig 2

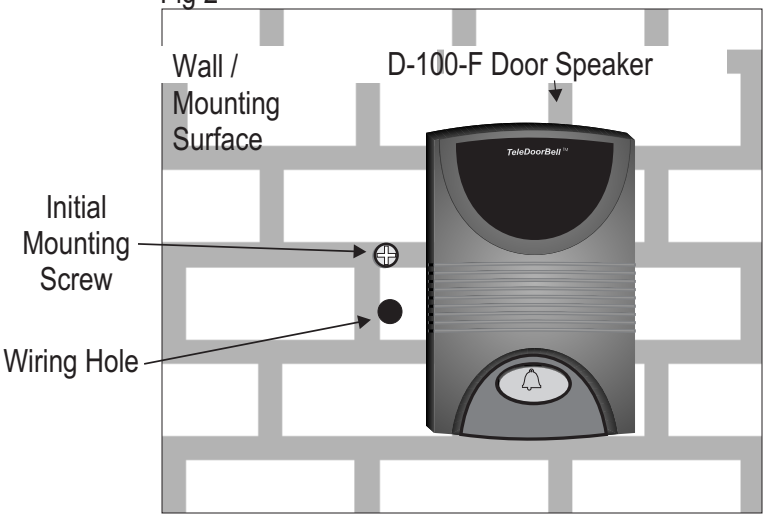


Fig 3

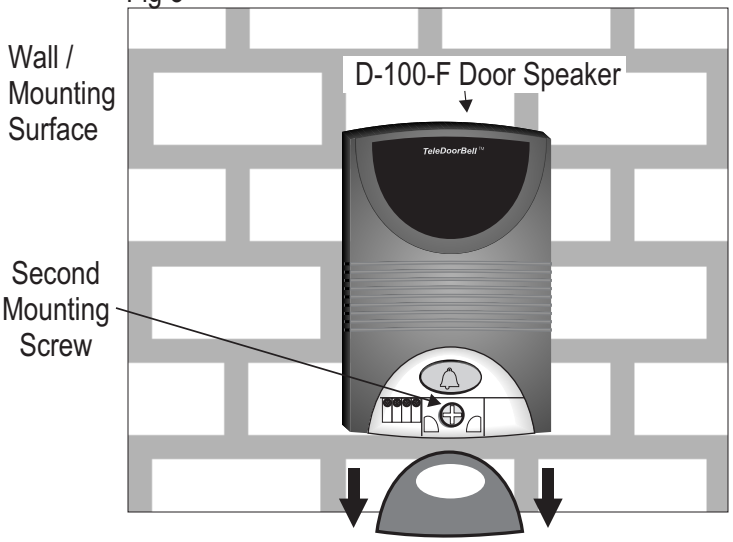
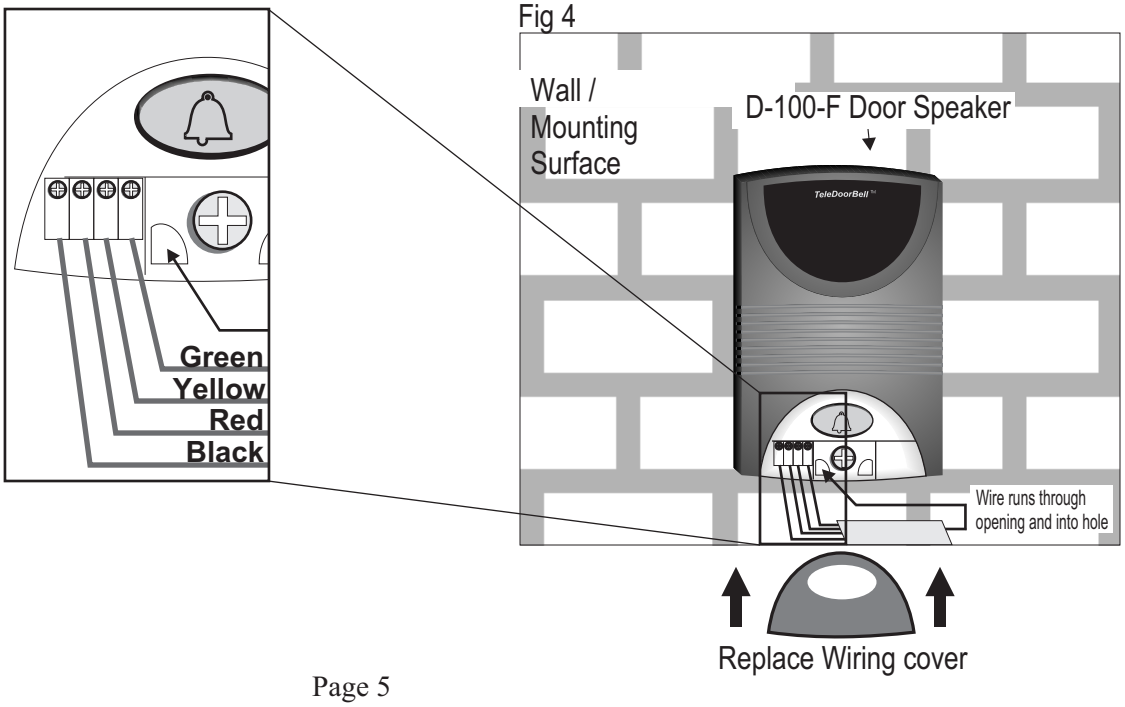
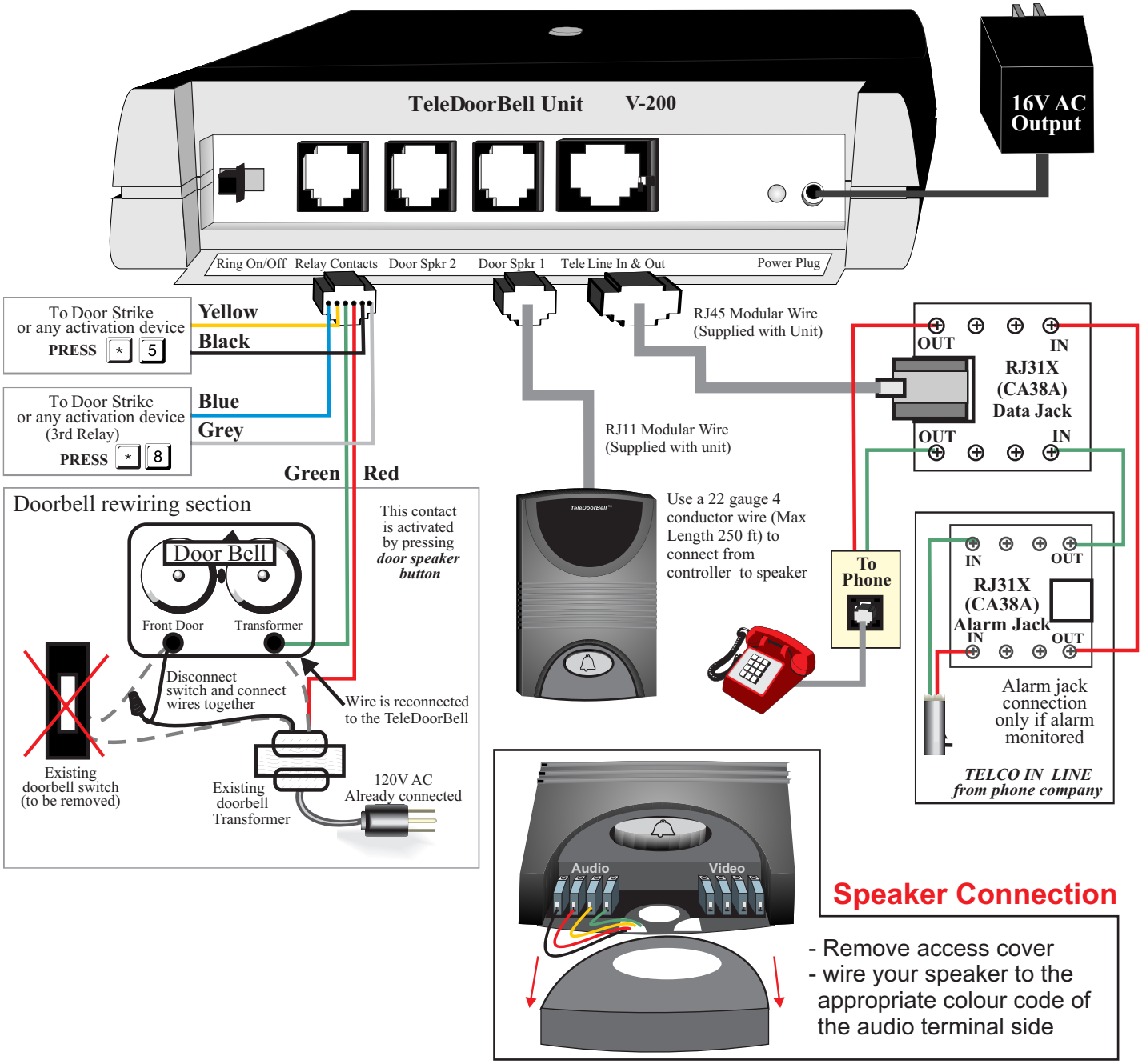


Fig 4



TeleDoorBell™

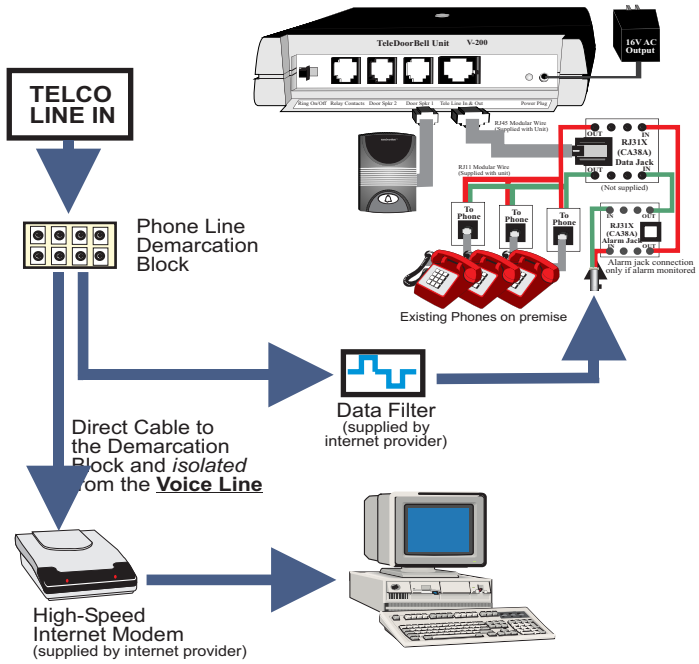
Installation Guide


TeleDoorBell Unit V-200
16V AC Output
Ring On/Off Relay Contacts Door Spkr 2 Door Spkr 1 Tele Line In & Out Power Plug
To Door Strike or any activation device
PRESS * 5
Yellow
Black
To Door Strike or any activation device (3rd Relay)
PRESS * 8
Blue
Grey
Green
Red
RJ45 Modular Wire (Supplied with Unit)
RJ11 Modular Wire (Supplied with unit)
OUT
IN
RJ31X (CA38A) Data Jack
OUT
IN
Use a 22 gauge 4 conductor wire (Max Length 250 ft) to connect from controller to speaker
To Phone
IN
OUT
RJ31X (CA38A) Alarm Jack
IN
OUT
Alarm jack connection only if alarm monitored
TELCO IN LINE from phone company
Doorbell rewiring section
Door Bell
Front Door
Transformer
This contact is activated by pressing door speaker button
Disconnect switch and connect wires together
Wire is reconnected to the TeleDoorBell
Existing doorbell switch (to be removed)
Existing doorbell Transformer
120V AC Already connected
Audio
Video
Speaker Connection
- Remove access cover
- wire your speaker to the appropriate colour code of the audio terminal side

09-01

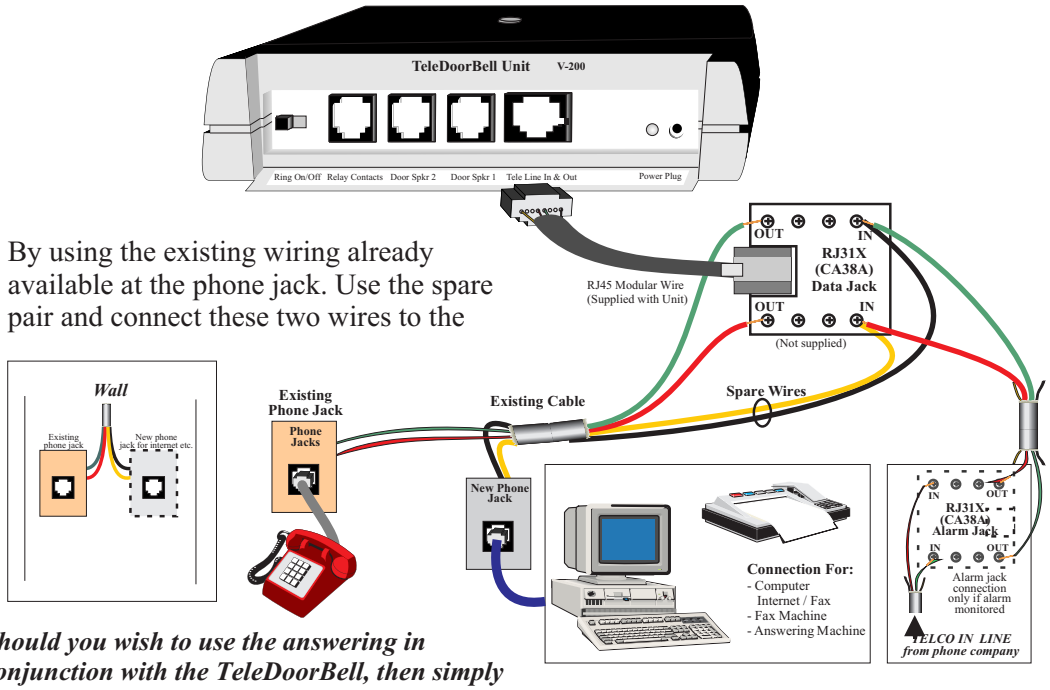
Additional TeleDoorBell Connection

High-Speed Phone-Line Internet



In order for the TeleDoorBell to work you will have to isolate the high-speed modem from the rest of the regular telephone lines. The two ways to go about this is 1) run an independent wire (preferably shielded) directly to the modem or 2) You could use the existing wire to connect to the modem but only if the wire is isolated from the rest of the phone cables (direct run). This existing wire (if being used) cannot be daisy-chained or be transmitting any other voice or data information other than the internet connection. (make sure that you install a Data Filter on the Voice Line to block out any of The high frequency noise)

Wiring connection for your computer / Internet / Fax or Answering Machine



By using the existing wiring already available at the phone jack. Use the spare pair and connect these two wires to the

Should you wish to use the answering in conjunction with the TeleDoorBell, then simply connect the machine as you would like the rest of the phones (no rewiring required). You will require

Trouble Shooting Guide

In case of difficulty, try the following suggestions before seeking assistance

Problem	Solution
Controller not responding	1) Check your AC and power adapter, confirm LED Power Indicator is ON 2) Check the power connection into the unit
My phones don't work	1) Are your phones wired into the (RJ31X and/or CA38A) data jack (output). To test connection, remove the RJ45 wire from the (RJ31X and/or CA38A) data jack which bypasses the ***TeleDoorBell*** and connects the phones directly to the main incoming line 2) Check for any breaks in the RJ45 wire, including Data Jack
When door speaker is pressed, phones ring but you have no audio communications to the door	1) Your Green or Yellow wires may be reversed, either at the speaker or at the controller 2) The Red and Black wires may be reversed, either at the speaker or at the controller
The ***TeleDoorBell*** is operating but the phones don't ring when the speaker button is pressed	1) Your ringer switch located at the front of the controller may be set to the OFF position 2) The Yellow wire is not properly connected to either the speaker or the controller section of the speaker 3) One of the phones may be causing to much of a load; unplug all phones and begin testing with one phone at a time till defective phone is found 4) (With more than one telephone line): you may have wired the controller to the wrong phone line
You have a dial tone feedback at the speaker when door speaker button is pressed	Reverse the In and Out on the (RJ31X and/or CA38A) data jack.
When pressing ∗#∗ (for monitoring the door) you get an operator recording (e.g. "this is an invalid number") and you have no communication to the speaker	1) You have attached the premise phones in parallel with the ***TeleDoorBell*** across your C/O line 2) Your telephones may not be touchtone compatible, or the touchtone switch may be set to off position 3) Check the yellow wire at both ends of speaker 4) (With more than one telephone line): you may have wired the controller to the wrong phone line
On a gate installation: you have no audio communication to the speaker	The unit has been designed to go a maximum of 250 ft with a 22 gauge wire. A possible solution to gain an additional 100 ft would be to increase the gauge thickness (18 or 16). You can also double up the Red and Black wires to give it the added gauge. A long range system (500 to 1000 ft) is now available (LRV-200).

KSU / PBX Installation and requirements for commercial applications

We recommend a KSU-V200 Controller.

- The unit provides all the necessary requirements to hook up to a commercial phone system including extended phone rings.

WARRANTY

Service Warranty
If servicing is needed for the TeleDoorBell, please contact your dealer. The dealer will be able to direct repairs and/or coordinate with the manufacturer. ***TeleDoorBell***™ products are warranted free from manufacturing defects for a period of one-year following installation. Faulty units will be repaired or replaced at no extra charge to the User except shipping and insurance. The manufacturer assumes NO liability for consequential damage or for damage resulting from abuse or improper operation.

Warranty
The ***TeleDoorBell***™, both main controller unit and speaker assembly is warranted to be free from manufacturing defects for ONE Year from date of purchase. If the main unit and the speaker assembly, fails during this period, the failed part will be repaired or replaced at no charge, f.o.b. Toronto, Ontario. To obtain warranty repair or replacement you must contact your dealer for instructions. Repaired or replaced units will have a ninety-day warranty from the time the replacement or repair has been completed.

International Warranty
The warranty for international customers is the same as for any customer within Canada, with the exception that PPAL Industries Ltd. shall not be responsible for any customs fee, shipping charges, taxes or VAT that may be due.

Disclaimer
The ***TeleDoorBell***™ has been designed as a communications device. Customer understands and agrees that PPAL Industries will not be held liable for any inconvenience, theft and invasion which may be of an indirect cause of the units failure, improper installation or the customers ability to use the device. PPAL Industries will not be held liable for Telephone Lines being out of service or busy causing the ***TeleDoorBell***™ to not function properly. Although every effort has been made to make the ***TeleDoorBell***™ as reliable as possible, the ***TeleDoorBell***™ may fail to function as intended due to the failure of components.

Conditions to Void Warranty
1) Damage incurred in shipping and handling 2) Damage caused by disaster such as fire, flood, wind, water / rain, earthquake, lightning and power surges 3) damage caused by unauthorized attachment, alterations, modifications or foreign objects 4) Defects caused by failure to provide suitable installation environment for the product 5) Damage arising out of any other abuse, mishandling or improper application of the product

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How to use your *TeleDoorBell*

1. If your doorbell rings or you hear the unique ***TeleDoorBell***™ ring signal, pick up any telephone in the house within two minutes. You can now talk to the person at the entrance.

2.If two minutes has expired then pick up any telephone and press * # * on the touch tone keypad on your telephone. This will connect you to the door speaker.

Note: Using * # * can be done at times when no one has depressed the door speaker button and provides the user with a monitor function.

3.While on a telephone conversation, depression of the door speaker button will cause a unique call indication tone to be applied over the conversation. The doorbell will also ring, if enabled. * 4 can be used to put the telephone call on hold and connect to the door speaker. Using * 4 again will return to the telephone call. This hold feature can be used only once per door speaker button depression. Alternatively, a user can hang up the active conversation and then pick up the receiver and a connection will occur with the door speaker. A user has two minutes to do this, otherwise, * # * needs to be used.

4. If a door strike system has been installed, to automatically open a door or a gate, a user can activate it by depressing * 5 / * 8 on the keypad while connected to the speaker. This will cause a five second contact closure and open the door or gate automatically.

Answering The Door
- Pick up hand set
- Speak to person

If a door strike is connetcted
- Press [*] [5] Strike#1
  and / or [*] [8] Strike#2
- Hang-up

Monitor A Door Station
- Pick up hand set
- Press [*] [#] [*]
- Listen / Speak
- Hang-up

Putting Caller on HOLD
- (While speaking to a caller), a visitor presses the door button, 2 beeps will be heard in your handset
- Press [*] [4]
- Speak to person at the door
- Press [*] [4] to return speaking to caller

Programming Your *TeleDoorBell*
- Pick up hand set
- Press [*] [#] [*]
- Press [*] [7]
- Listen for 2 beeps
- Enter your passcode (default is 111) [1] [1] [1]

In the following, an acknowledgment of three beeps will indicate that the dialing sequence is disabled, two beeps will indicate the dialing sequence is enabled.

Long Distance Restrictions
- Disable/Enable 1+ dialing [*] [*] [1]
- Disable/Enable 1+976 dialing [9] [7] [6]
- Disable/Enable 011 dialing [0] [1] [1]

Change Passcode
- Enter Passcode Mode [7] [2] [7]
- Listen for 2 beeps
- Enter New Passcode [1] [2] [3]

REMEMBER: The TeleDoorBell will lose its programming and return to factory default settings, including password, if the power goes out.

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